

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
8460 Watson Road St. Louis, Missouri 63119 (314) 849-1313

3.600 St. Louis County  
West Lake Landfill, Inc. Sanitary Landfill

August 14, 1978

Mr. William Canney  
West Lake Landfill, Inc.  
Route 1, Box 206  
Bridgeton, Missouri 63042

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BUREAU OF  
SOLID WASTE MANAGEMENT

AUG 21 1978

WASTE SUPPLY

Site: West Lake AL 2	
ID #	MBD07990932
Break:	17.8
Other:	8-14-78

Dear Mr. Canney:

An annual inspection was made of the condition and operation of the West Lake Landfill, Inc., Sanitary Landfill on July 28, 1978. The recommendations contained in this report are based on the findings made at the time of the investigation. I trust that you will direct your attention to these findings and that you will proceed to carry out the recommendations presented.

FINDINGS:

1. Sufficient final cover and intermediate cover were not applied in some areas.
2. A daily task operating manual was not provided.
3. Communication with the machine operator was not available at all times.
4. Some required records were not being kept.

DISCUSSION:

Some solid wastes were visible in parts of the recently completed landfill areas. At least two feet of compacted final cover should be applied to each area as it is completed. On areas where additional cells are not to be constructed for extended periods (over sixty days) of time, at least one foot of compacted cover should be applied. Completed areas should also be seeded to establish a vegetative growth and prevent erosion.

Paragraph 80-3.010 (12)(C) 3. of The Missouri Solid Waste Management Law, Rules and Regulations prescribes that a daily task operating manual "describing the various tasks that must be performed during a typical shift should be available to employees for reference."

Joseph P. Teasdale Governor  
Carolyn Ashford Director  
St. Louis Regional Office

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SUPERFUND RECORDS

DNR 0098

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Mr. Canney

Such a manual need not be elaborate but should contain basic instructions for training new personnel and guidelines for handling emergency and problem situations.

A reliable means of communications with the site machine operator should be established. The availability of quick communications could mean the difference between a happy or unhappy outcome to an emergency situation at the landfilling area.

Records of vector control efforts and dust and litter control efforts were not being kept. The requirements for record keeping are spelled out on pages 32 and 33 of The Missouri Solid Waste Management Law, Rules and Regulations.

RECOMMENDATIONS:

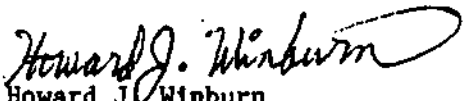
1. Insure that a continuous, compacted, intermediate soil cover of at least one foot thick is applied and maintained over areas where additional cells are not to be constructed for extended periods (over sixty days) of time. Likewise, apply and maintain compacted final cover of at least two feet thick on each area as it is completed. Seed this cover as soon as possible after it is applied to minimize erosion.
2. Develop and maintain a simple, yet comprehensive, daily task operating manual at the site.
3. Provide appropriate instant communications equipment for the machine operator(s) to use to contact responsible personnel in an emergency.
4. Initiate and maintain required records.

Should you have any questions concerning this report, contact Howard Winburn of the St. Louis Regional Office.

APPROVED:

SUBMITTED BY:

Earl F. Holtgraewe, P.E.  
Regional Administrator  
St. Louis Regional Office  
Department of Natural Resources

  
Howard J. Winburn  
Environmental Engineer II  
St. Louis Regional Office  
Department of Natural Resources

EFH/HW/dak

CC: ✓ Central Office, Solid Waste Program  
Paul H. Himebaugh, Suite 257, 9929 Manchester Rd., Warson Woods, Mo. 63122  
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St. Louis County Dept. of Community Health and Medical Care

Annual Inspection

MISSOURI DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL QUALITY

## SANITARY LANDFILL SURVEILLANCE RECORD

recorded

Date: 7-28-78 Days/Week Open: 5 1/2  
 Name of Sanitary Landfill: West Lake Landfill, Inc. Sanitary Landfill  
 Permit No: 118903 County: St. Louis  
 Owner: West Lake Landfill, Inc. Operator: Vernon Fehr  
 Address: Route 1, Box 206 Address: Route 1, Box 206  
Bridgeton, Missouri 63042 Bridgeton, Missouri 63042

## I. Special Conditions and Approved Modifications

A. Are there any special conditions or approved modifications of the satisfactory compliance subsections of the rules and regulations? (e.g. impermeable barrier, limited excavation, exceptions to daily cover requirements)

☒ Yes ☐ No

B. Is the sanitary landfill operation in compliance with the special conditions or approved modifications? (If "No," describe violations under "REMARKS.")

☒ Yes ☐ No

## II. Check Types of Waste Accepted

	INDICATED ON PERMIT APPLICATION	REPORTED BY OPERATOR	AS OBSERVED
Municipal solid waste	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bulky waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dead animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incinerator residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demolition and construction waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brush and untreated wood waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Septic tank pumpings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wastewater treatment plant sludges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER SLUDGES (SPECIFY)			
LIQUIDS (SPECIFY)			
INDUSTRIAL PROCESS WASTE (SPECIFY)			
HAZARDOUS WASTES (SPECIFY)			
OTHER WASTES (SPECIFY)			

## III. Remaining Life of Landfill

A. Estimated average volume of compacted solid waste received.

48,000 (\_\_\_\_\_, yards/day, \_\_\_\_\_)

B. Estimated volume of remaining landfill covered by approved engineering plans.

140 acre feet

#### IV. Satisfactory Compliance Subsections Regulations 80-3.010

Check all subsections: SAT — Satisfactory; UNS — Unsatisfactory. (If necessary describe "UNS" violations under "Remarks.")

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
<b>(2) SOLID WASTE ACCEPTED</b>			
(2)(C)1	Routine Sanitary landfill techniques of spreading and compacting solid waste and placing cover material daily.	✓	
(2)(C)2	Bulky solid waste crushed on solid ground and pushed onto working face near bottom of the cell.		
(2)(C)3	Small dead animals covered immediately with soil or solid waste. Large dead animals placed in pit and covered with four feet compacted soil.		
(2)(C)4	Disposal of dewatered sludges on working face along with municipal solid waste.		
(2)(C)5	Incinerator and air pollution control residues prevented from becoming airborne.		
<b>(3) SOLID WASTE EXCLUDED</b>			
(3)(C)1	No unpermitted waste accepted.	✓	
(3)(C)2	Sign posted at entrance listing excluded wastes.	✓	
<b>(4) SITE SELECTION</b>			
(4)(C)1	Site accessible in all weather conditions. Temporary roads provided for delivery to working face.	✓	
(4)(C)2	Public roads or access roads to the site above flood elevation.	✓	
<b>(6) WATER QUALITY</b>			
(6)(C)1	Surface water courses and runoff properly diverted from the landfill. Sanitary landfill construction and grading to promote rapid surface water runoff without excessive erosion.	✓	
(6)(C)2	Leachate collection and treatment systems utilized where necessary to protect ground and surface water resources.	✓	
(6)(C)3	No groundwater in contact with solid waste.	✓	
<b>(7) AIR QUALITY</b>			
(7)(C)	No open burning without written permission of the proper air pollution agency and the Division.	✓	
<b>(8) GAS CONTROL</b>			
(8)(C)1	Decomposition gases adequately vented to prevent danger to occupants of adjacent property.		
(8)(C)2	Decomposition gases vented in a manner to prohibit accumulation in explosive or toxic concentrations.		
<b>(9) VECTORS</b>			
(9)(C)	Vector control programs implemented when necessary to prevent or rectify vector problems.	✓	
<b>(10) AESTHETICS</b>			
(10)(C)1	Litter control devices utilized near working face and elsewhere as needed. Litter collected from fences, and the ground surface, and incorporated into the daily cell at the end of each day or containerized.		
(10)(C)2	Wastes easily moved by wind covered as necessary to prevent their becoming airborne and scattered.		

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
<b>(10) AESTHETICS (continued)</b>			
(10)(C)3	On-site vegetation and natural windbreaks being utilized to improve appearance and operation of the sanitary landfill.	✓	
(10)(C)4	Salvaged materials removed daily or stored in aesthetically acceptable containers or enclosures.		
<b>(11) COVER MATERIAL</b>			
(11)(C)1	Daily cover applied regardless of weather in not less than a six inch layer. Cover material available in all weather conditions.		
(11)(C)2	Intermediate cover applied to all areas idle for more than 60 days in a layer not less than one foot after compaction.		✓
(11)(C)3	Final cover applied on each area as completed in a layer not less than two feet after compaction.		✓
<b>(12) COMPACTION</b>			
(12)(C)1	Adequate equipment on-site, operated daily.	✓	
(12)(C)1A	Solid waste spread in layers not to exceed two feet and confined to smallest practical area.	✓	
(12)(C)1B	Wastes compacted to smallest practical volume.	✓	
(12)(C)1C	Cover material compacted as much as practical.		
(12)(C)2	Preventive maintenance performed.	✓	
(12)(C)3	Daily task operating manual provided.		✓
<b>(13) SAFETY</b>			
(13)(C)1	Fire extinguishers provided on oil equipment.	✓	
(13)(C)2	Provisions for extinguishing fires in waste, equipment and structures.	✓	
(13)(C)3	Communication equipment available.		✓
(13)(C)4	Scavenging prohibited.	✓	
(13)(C)5	Controlled access to site by established roadways and limited to hours when operating personnel are on duty.	✓	
(13)(C)6	Traffic controlled and directed to appropriate disposing points.	✓	
(13)(C)7	Dust controlled for safety purposes and to prevent nuisances.	✓	
<b>(14) RECORDS</b>			
(14)(C)1A	Records of major problems and complaints.	✓	
(14)(C)1B	Monitoring record maintained. a. leachate sampling and analyses, b. gas sampling and analyses, c. ground and surface water analyses.		✓
(14)(C)1C	Records of vector control efforts.		✓
(14)(C)1D	Records of dust and litter control efforts.		✓
(14)(C)1E	Records of quantity of waste handled.	✓	
(14)(C)1F	Records of description, sources, and volume of special wastes listed in Subsection (3)(A).		

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#### V. Operation Proceeding in Accordance With Approved Engineer Plans? (If "No," describe violations under "Remarks.")

✓ Yes \_\_\_\_\_ No

REMARKS The operator reported that the monitoring well had been pumped on the morning of the inspection. At approximately 12:00 a.m. the leachate level in it was estimated to be 5-6 ft. deep.

(Attach additional sheets as necessary.)

BY Howard J. Winburn  
SIGNATURE OF INVESTIGATOR